

SHIP 31/08 (partial 28/08)

Work Order ID 51684

August 27, 2009 9:23:33 AM

Page 1

Item ID: D130-787-013

Accept

Revision ID: B

Item Name: Traffic Advisory System Mounting Provisions

Start Date: 8/27/09 Start Qty: 1.00

Required Date: 8/31/09 Req'd Qty: 1.00

Reference:

Approvals: Process Plan: *W*

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

100

0.00

DC

Document Control

Memo

Photocopy bluefile and type labels per PPP D130-787-013 CHG 001

(white label no B* but paper work)
8/31/09

110

Pick Kit

0.00

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

QC

Quality Control

Memo

Kit missing part 0.00 *2) S order 103*
Due to Partic Recall

pl 09-8-28
white label
(partial)

P 9/8/28 1)
P 9/8/31 1)

(4)

(Ph) ->

| W/O: | | WORK ORDER CHANGES | | | | | |
|----------|------|--|----|----------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| 09.09.03 | 120 | Shipping kit with missing 1541-1-5620 contract Linda Co is to supposed to be shipping direct. AS I was told 5/07/03/03 | U | 09/09/03 | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|--------------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
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| | | | | | | | | |

NOTE: Date & initial all entries

Work Order ID 51684

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Item ID: D130-787-013

Accept



Setup Start



Revision ID: B

Stop



Item Name: Traffic Advisory System Mounting Provisions

Start Date: 8/27/09 Start Qty: 1.00



Cust Item ID:

Required Date: 8/31/09 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

0.00



Packaging

Memo

0.00

Identify and pack for shipping as per PPP D130-787-013

Location:

PPP Rev:

130-787-013

(130-787-013)

PC 9/9/12

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

W 9-9-03

09/09/03

POSITIVE RECALL

EFFECTIVE *9-9-03*

AUTH *L*

RELEASED _____ DATE _____

See ATTACHED

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

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Page 1

Work Order ID: 51684

Parent Item: D130-787-013RevB

Parent Item Name: Traffic Advisory System Mounting Provisions








Start Date: 8/27/09

Required Date: 8/31/09

Comments:

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|-----------------|--------|
| S D3869-1RevA <i>x1</i>  Top Antenna Ground Plane | | Manufactured | No | | | 110 | Each | 0.0000 | 1.0000 | <i>51572</i> | <i>P</i> | |
| S D3872-1RevA <i>x1</i>  Plate | | Manufactured | No | | | 110 | Each | 0.0000 | 1.0000 | <i>51573</i> | <i>P</i> | |
| S D3872-3RevA <i>x1</i>  Doubler | | Manufactured | No | | | 110 | Each | 0.0000 | 1.0000 | <i>51574</i> | <i>P</i> | |
| S D3881-1RevA <i>x1</i>  Bracket | | Manufactured | No | | | 110 | Each | 0.0000 | 1.0000 | <i>51685</i> | <i>P</i> | |
| S D3880-3RevA <i>x2</i>  Floor Doubler | | Manufactured | No | | | 110 | Each | 0.0000 | 2.0000 | <i>51681</i> | <i>P</i> | |
| S D3880-041RevA <i>x2</i>  Spacer Assembly | | Manufactured | No | | | 110 | Each | 0.0000 | 2.0000 | <i>51682</i> | <i>P</i> | |
| S D3906-1RevA <i>x1</i>  Placard | | Manufactured | No | | | 110 | Each | 2.0000 | 1.0000 | <i>51683</i> | <i>P 7/3/10</i> | |

Warehouse

Loc Qty


Loc Code

Location

Main Warehouse

ST

46455

S AN525-832-R6 *x1*

SCREW

Purchased

No

110

Each

0.0000

4.0000

251

M112057 8/9/09

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Picklist Print

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Page 2

Work Order ID: 51684

Parent Item: D130-787-013RevB

Parent Item Name: Traffic Advisory System Mounting Provisions



Start Date: 8/27/09

Required Date: 8/31/09

Comments:

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|---|---------------|----------------|--------|
| MS24693-S26 <i>+2</i> | | Purchased | No | | | 110 | Each | 90.0000 | 2.0000 ✓ | | | |
|  | | | | | | | | |  | | | |
| Screw | | | | | | | | | | | | |

10/9/08 ①

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

90

112019

90

MS24694-S50 *+6*

Purchased

No

110

Each

226.0000

6.0000 ✓

112019



Screw

10/9/08 ①

Warehouse

Location

Loc Qty

Loc Code

Main Warehouse

ST

226

108936

6 *8*

111020

20 *2*

112195

200

MS35206-215 *+2*

Purchased

No

110

Each

0.0000

2.0000 ✓

m111020 4x

m112195 2x

m1120557



Screw

10/9/08 ①

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| W/O: | | WORK ORDER CHANGES | | | | | |
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NOTE: Date & initial all entries

Picklist Print

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Page 3

Work Order ID: 51684

Parent Item: D130-787-013RevB

Parent Item Name: Traffic Advisory System Mounting Provisions


Start Date: 8/27/09

Required Date: 8/31/09

Comments:

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| MS35206-244  Screw | x2 | Purchased | No | | | 110 | Each | 100.0000 | 2.0000 ✓ | | | |

Rec'd 8/28

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST

100

112314

100

§ NAS1149D0432J x2 Purchased No 110 Each 0.0000 2.0000 ✓

WASHER

§ NAS1149D0632J x2 Purchased No 110 Each 0.0000 2.0000 ✓

Washer

§ NAS1149D0832J x26 Purchased No 110 Each 0.0000 20.0000 ✓

Washer

§ MS21042L04 x2 Purchased No 110 Each 182.0000 2.0000 ✓

Nut

112314

M1120557

M1120557

M1120557

M1269

Rec'd 9/9/01

Rec'd 8/27

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST

182

11492

14

1269

84

1582

84

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Shop Packet Print

Page 3

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

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Work Order ID: 51684

Parent Item: D130-787-013RevB

Parent Item Name: Traffic Advisory System Mounting Provisions


Start Date: 8/27/09

Required Date: 8/31/09

Comments:

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| MS21042L06  Nut | 72 | Purchased | No | | | 110 | Each | 511.0000 | 2.0000 ✓ | | | |

Ref 8/27 (1)

Warehouse Loc Qty Loc Code
Location

Main Warehouse

| | | |
|--------|-----|--------|
| ST | 511 | |
| 110123 | 11 | |
| 110731 | 14 | |
| 111548 | 1 | |
| 112243 | 185 | 112243 |
| 112369 | 100 | |
| 112433 | 100 | |
| 112465 | 100 | |


| | | | | | | | | | | | | |
|---|-----|-----------|----|--|--|-----|------|----------|-----------|--|--|--|
| MS21042L08  Nut | 710 | Purchased | No | | | 110 | Each | 303.0000 | 10.0000 ✓ | | | |
|---|-----|-----------|----|--|--|-----|------|----------|-----------|--|--|--|

Ref 8/27 (1)

Warehouse Loc Qty Loc Code
Location

Main Warehouse

| | | |
|--------|-----|--|
| ST | 303 | |
| 110002 | 24 | |
| 111889 | 30 | |
| 112243 | 49 | |
| 112492 | 200 | |

| | | | | | | | | | | | | |
|---|----|-----------|----|--|--|-----|------|--------|--------|--|--|--|
| LED-40-17-HE-E05LL  Annunciator, traffic | 71 | Purchased | No | | | 110 | Each | 0.0000 | 1.0000 | | | |
|---|----|-----------|----|--|--|-----|------|--------|--------|--|--|--|

112492
M112531 *Ref 8/28*

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Picklist Print

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Page 5

Work Order ID: 51684

Parent Item: D130-787-013RevB

Parent Item Name: Traffic Advisory System Mounting Provisions



Start Date: 8/27/09

Required Date: 8/31/09

Comments:

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| LED-41-14-ED-E05LM  | 41 | Purchased | No | | | 110 | Each | 0.0000 | 1.0000 | | | |
| Annunciator, traffic 18-200 <i>x2</i>  | | Purchased | No | | | 110 | Each | 5.0000 | 2.0000 | | | |
| Connector | | | | | | | | | | | | |

m11D531 *Pc9/8/28*
✓ *Pc9/8/28* *①*

Warehouse
Location

Loc Qty

Loc Code






Main Warehouse

ST

5

112020

5

| | | | | | | | | | | | | |
|--|--|-----------|----|--|--|-----|------|--------|--------|--|--|--|
| 190121 <i>x4</i>  | | Purchased | No | | | 110 | Each | 0.0000 | 4.0000 | | | |
| Connector, TNC | | | | | | | | | | | | |
| 190109 <i>x4</i>  | | Purchased | No | | | 110 | Each | 0.0000 | 4.0000 | | | |
| Connector, TNC | | | | | | | | | | | | |
| 1841-1-5620 <i>x1</i>  | | Purchased | No | | | 110 | Each | 0.0000 | 1.0000 | | | |
| CONTACT | | | | | | | | | | | | |
| RN55C1211FB14 <i>x1</i>  | | Purchased | No | | | 110 | Each | 0.0000 | 1.0000 | | | |
| RESISTOR 1.21 Kohms | | | | | | | | | | | | |
| 1N4007 <i>x1</i>  | | Purchased | No | | | 110 | Each | 0.0000 | 1.0000 | | | |
| Diode | | | | | | | | | | | | |

112020
m112530 *Pc9/8/28* *①*
m112530 *Pc9/8/28* *①*
SEE ATTACHED *②*
m112515 *Pc*
m112515 *Pc9/8/28* *①*

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Shop Packet Print

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| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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| | | | | | | | | |

NOTE: Date & initial all entries

8 PARTS LIST

| -011 | -013 | Part Number | Description |
|------|------|----------------------------------|---|
| X | | D130-787-011 | Traffic Advisory System Install Kit |
| 1 | X | D130-787-013 | Traffic Advisory System Mounting Kit |
| | 1 | D3869-1 | TOP ANTENNA GROUND PLANE |
| | 1 | D3872-1 | BOTTOM ANTENNA MOUNTING PLATE |
| | 1 | D3872-3 | BOTTOM ANTENNA DOUBLER |
| | 1 | D3881-1 | CONFIGURATION MODULE AND MAINTENANCE PORT BRACKET |
| | 2 | D3880-3 | FLOOR DOUBLER |
| | 2 | D3880-041 | SPACER ASSEMBLY |
| | 1 | D3906-1 | PLACARD |
| | 4 | AN525-832-R6 | SCREW <i>no stock.</i> |
| | 2 | MS24693-S26 | SCREW <i>90</i> |
| | 6 | MS24694-S50 | SCREW <i>226</i> |
| | 2 | MS35206-215 | SCREW <i>0</i> |
| | 2 | MS35206-244 | SCREW <i>100</i> |
| | 2 | NAS1149D0432J | WASHER <i>no stock.</i> |
| | 2 | NAS1149D0632J | WASHER <i>0</i> |
| | 20 | NAS1149D0832J | WASHER <i>0</i> |
| | 2 | MS21042L04 | NUT <i>182</i> |
| | 2 | MS21042L06 | NUT <i>511</i> |
| | 10 | MS21042L08 | NUT <i>303</i> |
| | 1 | LED-40-17-HE-E05LL <i>x3</i> | Annunciator, Traffic <i>no stock.</i> |
| | 1 | LED-41-14-ED-E05LM <i>x3</i> | Annunciator, Traffic Inhibit On Off <i>no stock.</i> |
| | 2 | 18-200 <i>x 20</i> | Connector, Plug <i>20 (stock)</i> |
| | 4 | 190121 <i>x 12</i> | Connectors, TNC Bulkhead <i>no stock.</i> |
| | 4 | 190109 <i>x 12</i> | Connectors, TNC Right Angle <i>no stock.</i> |
| | 1 | 1841-1-5620 <i>x 3 (stock)</i> | Contact <i>no stock. answer 90</i> |
| | 1 | RN55C1211FB14 <i>x3</i> | Resistor, 1.21 kOhms <i>no stock. 294 ymmer.</i> |
| | 1 | 1N4007 <i>x 6</i> | Diode <i>stock. .085 ymmer.</i> |
| 1 | | 066-01152-0101 | KA 810 TAS Processor Unit |
| 2 | | 071-01599-0100 | KA 815 Directional Antennas |
| 1 | | 071-00112-0200 | KCM 805 Configuration Module |
| 1 | | 050-03361-0000 | KA 810 / KMH 820 Install Kit |
| 2 | | 050-03362-0000 | KA 815 Antenna Install Kits |
| 1 | | H421-6U3 or MS26574-5 | Fuse or Circuit Breaker (See D130-787-901 Note 27) |
| AR | | S44193 | Coax Cable |

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MARY.JOHNSON@vivisat.com.

Revision: B

Date: 09.04.06

L Lacelle

From: Kevin Barton [kbarton@dartaero.com]
Sent: August 26, 2009 9:23 AM
To: 'Peggy McDonald'; 'L Lacelle'
Cc: 'Bill Beckett'; 'Spyke Whiting'
Subject: RE: EC130 TAS Installation for Papillon Helicopters

Good Morning,

The first thing he is going to have to do is take the aircraft apart, then most likely start routing wires. So if we can get him the electrical parts, he can start terminating wire. See below:



The D parts are also going to be important, I would try and ship those out as soon as possible.

Hope that helps. If you have any other questions please let me know.

Best Regards,

Kevin Barton

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From: Peggy McDonald [mailto:peggy@darths.com]
Sent: August 26, 2009 6:50 AM
To: 'L Lacelle'; 'Kevin Barton'
Cc: 'Bill Beckett'; 'Spyke Whiting'
Subject: EC130 TAS Installation for Papillon Helicopters
Importance: High

Good Morning Linda and Kevin,

Since the complete kit will only be ready sometime next week (need an exact date) we need to work on a partial shipment to get the customer started. The aircraft rolled into his hangar last night.

I have added Kevin to the email, as he will help identify what subparts will make the most sense to ship to start the install. Again, this is very time sensitive opportunity and very important for the Grand Canyon market potential, as this is the first install for Papillon (potential is 15 aircraft) and there is discussion about this aircraft being used to demonstrate the system at the upcoming TOPS meeting. The other target customer I am in discussions with at the moment is Maverick (potential 30 aircraft). These are only 2 of several operators that have been identified as target customers.

8/26/09

We need to have a detailed plan as quickly as possible – the customer is now waiting on us.

Kevin, FYI – They already have all the Honeywell parts on site. Dave Elston of Honeywell will be at Papillon (Monday or Tuesday next week)

Peggy

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Any views expressed in this message are those of the individual sender, except where the sender specifically states them to be the views of DART Helicopter Services.

L Lacelle

From: Peggy McDonald [peggy@darths.com]
Sent: August 26, 2009 8:50 AM
To: 'L Lacelle'; 'Kevin Barton'
Cc: 'Bill Beckett'; 'Spyke Whiting'
Subject: EC130 TAS Installation for Papillon Helicopters
Importance: High

Good Morning Linda and Kevin,

Since the complete kit will only be ready sometime next week (need an exact date) we need to work on a partial shipment to get the customer started. The aircraft rolled into his hangar last night.

I have added Kevin to the email, as he will help identify what subparts will make the most sense to ship to start the install. Again, this is very time sensitive opportunity and very important for the Grand Canyon market potential, as this is the first install for Papillon (potential is 15 aircraft) and there is discussion about this aircraft being used to demonstrate the system at the upcoming TOPS meeting. The other target customer I am in discussions with at the moment is Maverick (potential 30 aircraft). These are only 2 of several operators that have been identified as target customers.

We need to have a detailed plan as quickly as possible – the customer is now waiting on us.

Kevin, FYI – They already have all the Honeywell parts on site. Dave Elston of Honeywell will be at Papillon (Monday or Tuesday next week)

Peggy

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Any views expressed in this message are those of the individual sender, except where the sender specifically states them to be the views of DART Helicopter Services.

8/26/09

L Lacelle

From: Peggy McDonald [peggy@darths.com]
Sent: August 25, 2009 4:21 PM
To: 'L Lacelle'
Cc: 'Bill Beckett'; 'Melanie Fauteux'
Subject: RE: Leadtime for EC130 TAS Mounting Kit

What day can I commit for shipping?

Once I have a date – I will call the customer – we have missed the window though as the aircraft was in the hangar this week.

Give me a date and I will confirm and get back to you ASAP.

From: L Lacelle [mailto:llacelle@dartaero.com]
Sent: August 25, 2009 4:12 PM
To: 'Peggy McDonald'
Cc: 'Bill Beckett'; 'Melanie Fauteux'
Subject: RE: Leadtime for EC130 TAS Mounting Kit

Yup, just finished...looks like I could have all the parts in house by mid next week.

Thx
 LL

From: Peggy McDonald [mailto:peggy@darths.com]
Sent: August 25, 2009 4:09 PM
To: 'L Lacelle'
Cc: 'Bill Beckett'; 'Melanie Fauteux'
Subject: RE: Leadtime for EC130 TAS Mounting Kit
Importance: High

HI – any news on this?

From: L Lacelle [mailto:llacelle@dartaero.com]
Sent: August 24, 2009 1:55 PM
To: 'Peggy McDonald'
Cc: 'Bill Beckett'; 'Melanie Fauteux'
Subject: RE: Leadtime for EC130 TAS Mounting Kit

Sorry, but there are a lot of parts on this that we never ordered, so I would have to check into each item and see where to purchase from, I imagine some will be quite quick, and there may be some longer L/T's on some of them, I could try to get back to you tomorrow, I do not believe I can provide you with an accurate L/T today.
 Linda

From: Peggy McDonald [mailto:peggy@darths.com]
Sent: August 24, 2009 12:57 PM
To: 'L Lacelle'; 'Melanie Fauteux'
Cc: 'Spyke Whiting'; 'Bill Beckett'
Subject: Leadtime for EC130 TAS Mounting Kit
Importance: High

51564

8/26/09

Hi Linda,

Please advise lead-time QTY 1 x P/N D130-787-013. – need this one pretty quick.

Spyke, please call me when you have a few minutes regarding this first install for Papillon

Peggy

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8/26/09

L Lacelle

From: Peggy McDonald [peggy@darths.com]
Sent: August 27, 2009 8:38 AM
To: 'L Lacelle'
Cc: 'Bill Beckett'; 'Spyke Whiting'; 'Kevin Barton'
Subject: RE: EC130 TAS Installation for Papillon Helicopters

The first thing he is going to have to do is take the aircraft apart, then most likely start routing wires. So if we can get him the electrical parts, he can start terminating wire. See below:

| | | |
|---|--------------------|-------------------------------------|
| 1 | LED-40-17-HE-E05LL | Annunciator, Traffic |
| 1 | LED-41-14-ED-E05LM | Annunciator, Traffic Inhibit On Off |
| 2 | 18-200 | Connector, Plug |
| 4 | 190121 | Connectors, TNC Bulkhead |
| 4 | 190109 | Connectors, TNC Right Angle |
| 1 | 1841-1-5620 | Contact |
| 1 | RN55C1211FB14 | Resistor, 1.21 kOhms |
| 1 | 1N4007 | Diode |

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

SNIP 31/08 (partial 28/08)

~~09/28~~

Work Order ID 51684

August 27, 2009 9:23:33 AM

Item ID: D130-787-013
Revision ID: B
Item Name: Traffic Advisory System Mounting Provisions

Start Date: 8/27/09 Start Qty: 1.00
Required Date: 8/31/09 Req'd Qty: 1.00

Reference:

Approvals: Process Plan: *W*
QC: Date: Tooling: Date:



Cust Item ID:
Customer:



Setup Start



Stop



Run Start



Stop



| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Draw Number | Draw Rev. | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|----------------|--------------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|----------------|--------------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
|----------|--------------|

100

DC
Document Control

0.00

0.00

S 03/03/03

Memo
Photocopy bluefile and type labels per PPP D130-787-013 CHG 001

*(white label no Bn B.1 page work)
8/10/28*

*PP 09-28
white label
(partial)*

110

Packaging
Packaging

Pick Kit

0.00

Memo

0.00

*8/9/28
8/9/31*

120

QC
Quality Control

QC4- 100% Inspect kits for completeness

0.00

Memo

*Kit missing part => S 03/02/03
Due to Postic. Recall*

(40)

(Pto) ->

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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NOTE: Date & initial all entries

Work Order ID 51684

August 27, 2009 9:23:33 AM



Page 2

Item ID: D130-787-013
Revision ID: B
Item Name: Traffic Advisory System Mounting Provisions

Accept



Setup Start



Stop



Start Date: 8/27/09 Start Qty: 1.00
Required Date: 8/31/09 Req'd Qty: 1.00



Cust Item ID:
Customer:

Reference:

Run Start



Approvals: Process Plan: Date: Tooling: Date:
QC: Date: SPC (Y/N): Date:

Stop



| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Draw Number | Draw Rev. | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|---|----------------------|----------------|--------------|--------------|---------------|---------------|------------------|----------------|
| 130 | | 0.00 | | | | | | | |
| Packaging | Memo | 0.00 | | | | | | | |
| Packaging | Identify and pack for shipping as per PPP D130-787-013 Location: <u>DDA F+</u> (DDA F+ (-1 mcy)) PPP Rev: <u>DDA F+</u> | | | | | | | | |
| 140 | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | |
| QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

u 91-09-03

POSITIVE RECALL

EFFECTIVE 91-09-03 AUTH Lu

RELEASED DL DATE 91-09-03

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

August 27, 2009 9:23:32 AM

Work Order ID: 51684

Parent Item: D130-787-013RevB

Parent Item Name: Traffic Advisory System Mounting Provisions








Start Date: 8/27/09

Required Date: 8/31/09

Start Qty: 1.00

Required Qty: 1.00

Comments:

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| D3869-1RevA  | A | Manufactured | No | | | 110 | Each | 0.0000 | 1.0000 | 51572 | | P |
| Top Antenna Ground Plane D3872-1RevA  | | Manufactured | No | | | 110 | Each | 0.0000 | 1.0000 | 51573 | | P |
| Plate D3872-3RevA  | | Manufactured | No | | | 110 | Each | 0.0000 | 1.0000 | 51574 | | P |
| Doubler D3881-1RevA  | | Manufactured | No | | | 110 | Each | 0.0000 | 1.0000 | 51685 | | P |
| Bracket D3880-3RevA  | | Manufactured | No | | | 110 | Each | 0.0000 | 2.0000 | 51681 | | P |
| Floor Doubler D3880-041RevA  | | Manufactured | No | | | 110 | Each | 0.0000 | 2.0000 | 51682 | | P |
| Spacer Assembly D3906-1RevA  | | Manufactured | No | | | 110 | Each | 2.0000 | 1.0000 | 51883 | 7/4/310 | P |
| Placard | | | | | | | | | | | | |

WarehouseLocation

Main Warehouse

ST

46455

Loc QtyLoc Code

2

2

Each

0.0000

4.0000

AN525-832-R6

Purchased

No

110

SCREW

M112057 8/9/09

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

August 27, 2009 9:23:32 AM

Work Order ID: 51684

Parent Item: D130-787-013RevB

Parent Item Name: Traffic Advisory System Mounting Provisions

Start Date: 8/27/09

Required Date: 8/31/09

Start Qty: 1.00

Required Qty: 1.00

Comments:

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| MS24693-S26 | | Purchased | No | | | 110 | Each | 90.0000 | 2.0000 ✓ | | | |
| Screw | | | | | | | | | | | | |

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

90

112019

90

110

Each

226.0000

6.0000 ✓

112019

MS24694-S50

Purchased

No

Screw

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

226

108936

6

111020

20

112195

200

110

Each

0.0000

2.0000 ✓

111020 4X

1112195 2X

1112057

MS35206-215

Purchased

No

Screw

112019

112057

August 27, 2009 9:23:32 AM

Shop Packet Print

| W/O: | | WORK ORDER CHANGES | | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|--|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector | |
| | | | | | | | | |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
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NOTE: Date & initial all entries

Picklist Print

August 27, 2009 9:23:32 AM

Work Order ID: 51684

Parent Item: D130-787-013RevB

Parent Item Name: Traffic Advisory System Mounting Provisions


Start Date: 8/27/09

Required Date: 8/31/09

Start Qty: 1.00

Required Qty: 1.00

Comments:

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| MS35206-244  Screw | 72 | Purchased | No | | | 110 | Each | 100.0000 | 2.0000 ✓ | | | |

Rec'd 8/28

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

100

112314

100

5 NAS1149D0432J 72 Purchased No

110 Each 0.0000 2.0000 ✓



112314

WASHER

5 NAS1149D0632J 72 Purchased No

110 Each 0.0000 2.0000 ✓



M112557

lu

Washer

5 NAS1149D0832J 72 Purchased No

110 Each 0.0000 20.0000 ✓



M112557

lu

Washer

MS21042L04 72 Purchased No

110 Each 182.0000 2.0000 ✓



M112557

lu 9/9/01

Nut

Rec'd 8/27

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

182

11492

14

1269

84

1582

84

M1269

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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NOTE: Date & initial all entries

Picklist Print

August 27, 2009 9:23:32 AM

Work Order ID: 51684



Parent Item: D130-787-013RevB



Parent Item Name: Traffic Advisory System Mounting Provisions

Start Date: 8/27/09

Required Date: 8/31/09

Start Qty: 1.00

Required Qty: 1.00

Comments:

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| MS21042L06 Nut | | Purchased | No | | | 110 | Each | 511.0000 | 2.0000 ✓ | | | |

Pep/27 (1)

| Warehouse Location | Loc Qty | Loc Code |
|-----------------------|---------|----------|
| Main Warehouse | | |
| ST | 511 | |
| 110123 | 11 | |
| 110731 | 14 | |
| 111548 | 1 | |
| 112243 | 185 | 112243 |
| 112369 | 100 | |
| 112433 | 100 | |
| 112465 | 100 | |

MS21042L08

710

Purchased

No



Nut

| Warehouse Location | Loc Qty | Loc Code |
|-----------------------|---------|----------|
| Main Warehouse | | |
| ST | 303 | |
| 110002 | 24 | |
| 111889 | 30 | |
| 112243 | 49 | |
| 112492 | 200 | |

112243

Pep/27 (1)

| Warehouse Location | Loc Qty | Loc Code |
|-----------------------|---------|----------|
| Main Warehouse | | |
| ST | 303 | |
| 110002 | 24 | |
| 111889 | 30 | |
| 112243 | 49 | |
| 112492 | 200 | |

110 Each 0.0000 1.0000



112492

M112531

Pep/28

LED-40-17-HE-E05LL

71

Purchased

No



Annunciator, traffic

Shop Packet Print

August 27, 2009 9:23:32 AM

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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NOTE: Date & initial all entries

Picklist Print

August 27, 2009 9:23:32 AM

Work Order ID: 51684

Parent Item: D130-787-013RevB

Parent Item Name: Traffic Advisory System Mounting Provisions

Start Date: 8/27/09

Required Date: 8/31/09

Start Qty: 1.00

Required Qty: 1.00

Comments:

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| LED-41-14-ED-E05LM | 11 | Purchased | No | | | 110 | Each | 0.0000 | 1.0000 | | | |
| Annunciator, traffic 18-200 | 12 | Purchased | No | | | 110 | Each | 5.0000 | 2.0000 | | | |
| Connector | | | | | | | | | | | | |

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

112020

190121

Purchased No

110

Each

0.0000

4.0000

Connector, TNC

190109

Purchased No

110

Each

0.0000

4.0000

Connector, TNC

1841-1-5620

Purchased No

110

Each

0.0000

1.0000

CONTACT

RN55C1211FB14

Purchased No

110

Each

0.0000

1.0000

RESISTOR 1.21 Kohms

1N4007

Purchased No

110

Each

0.0000

1.0000

Diode

6x 190109

11/2530 10/9/13

Shop Packet Print

August 27, 2009 9:23:32 AM

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

L Lacelle

From: Kevin Barton [kbarton@dartaero.com]
Sent: September 3, 2009 12:14 PM
To: 'Mike Petsche'
Cc: 'Alan Stocker'; 'BILL B (BILL B)'; 'Chris Provencal'; dans@dartaero.com; 'David Duval'; 'David Shepherd'; ericc@dartaero.com; 'H. Siemens'; 'Jason Murdoch (E-mail)'; 'Jean-Luc Menard'; 'Kim Johnston'; 'Linda Lacelle'; 'Marc Bellavance'; 'Melanie Fauteux'; 'Peter Hum (Peter Hum)'; 'Siân Willems'; 'Susanne Sheldon (Susanne Sheldon)'
Subject: D130-787-013 Under Review
Attachments: URF D130-787-013.xls

Quantity of P/N 190109 TNC right angle connector incorrect. Quantity of P/N 190109 TNC right angle connectors in D130-787-013 Kit should be 10 instead of 4.
Add quantity 2 of P/N 190113 BNC right angle connector to D130-787-013 Kit.
DSI 9479 to be released shortly on ECN 658.

Best Regards,

Kevin Barton

Electronics Engineering Technologist - Avionics

DART aerospace Ltd.

☎ 403-717-0325

📠 403-717-1288

💻 kbarton@dartaero.com

💻 www.dartaero.com

📍 1060 McTavish Road NE, Calgary, Alberta T2E 7G9

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9/03/09

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|--------------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Under Review Notification

Raised By: K. Barton
Date: 09.09.03

Product #: D130-787-013
Product Name: EC-130 TAS Installation.

| Drawing/Kit Number | Drawing/Kit Description | Quantity on Hand (Stock) | Quantity on Order (Production) | Quantity Allocated (Customer Order) | HOLD SHIPMENT | Red Tag/Quarantine Stock | Advise customers | Stop Production | Re-Work Stock | IPP Under Review | Blue File Under Review | ECN # | Instructions |
|--------------------|-------------------------|--------------------------|--------------------------------|-------------------------------------|---------------|--------------------------|------------------|-----------------|---------------|------------------|------------------------|-------|----------------------------------|
| D130-787-013 | EC-130 TAS Installation | X | | | X | | | | X | X | X | 658 | Update kits with new quantities. |
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Description of issue:

Quantity of P/N 190109 TNC right angle connector incorrect. Quantity of P/N 190109 TNC right angle connectors in D130-787-013 Kit should be 10 instead of 4.

Add quantity 2 of P/N 190113 BNC right angle connector to D130-787-013 Kit.

DSI 9479 to be released shortly on ECN 658.

Sign & date tags

Distribution:

General Manager
 Production Manager
 Director Quality Assurance
 Design Manager
 Chief Engineer

Production Engineering Coordinators
 Quality Assurance Coordinator
 Quality Control Coordinator
 Order Processing
 Customer Technical Support

Engineering Project Managers
 Engineering Clerk
 Marketing

Add to kit

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6x 190109

m112530

Rec'd 9/13

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14 1841-1-5620

m112584